10/582413 IAP20Rec'd PET/PTO 09 JUN 2006

SEQUENCE LISTING

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				Thr										c tca Val S		1681
-			Glu					Ser						c aag Pro I		1729
		Glu					Pro							ag atg Gln l		1777
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Val Cys Pro Pro Met Ala Glu Ser Gly Ser Cys Cys Thr Thr His Ile

610 615 620

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1918

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1924

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Thr Cys Phe Trp Asp Glu Glu Glu Ala Ala Pro Ser Gly Thr Tyr Gln 50 55 60

Leu Leu Tyr Ala Tyr Pro Gly Glu Lys Pro Arg Ala Cys Pro Leu Ser 65 70 75 80

Ser Gln Ser Val Pro Arg Phe Gly Thr Arg Tyr Val Cys Gln Phe Pro 85 90 95

Ala Gln Glu Val Arg Leu Phe Ser Pro Leu His Leu Trp Val Lys 100 105 110

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Ile	Ser	Asp	Phe	Leu 165	Arg	Tyr	Glu	Leu	Arg 170	Tyr	Gly	Pro	Lys	Asp 175	Leu
Lys	Asn	Ser	Thr 180	Gly	Pro	Thr	Val	Ile 185	Gln	Leu	Ile	Ala	Thr 190	Glu	Thr
Cys	Cys	Pro 195	Ala	Leu	G1n	Arg	Pro 200	His	Ser	Ala	Ser	Ala 205	Leu	Asp	Gln
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Cys	Leu	Ile	Ser	Gly 245	Leu	Gln	Pro	Gly	Asn 250	Ser	Tyr	Trp	Leu	Gln 255	Leu
Arg	Ser	Glu	Pro 260	Asp	Gly	Ile	Ser	Leu 265	Gly	Gly	Ser	Trp	Gly 270	Ser	Trp
Ser	Leu	Pro 275	Val	Thr	Val	Asp	Leu 280	Pro	Gly	Asp	Ala	Val 285	Ala	Ile	Gly

Leu Gln Cys Phe Thr Leu Asp Leu Lys Asn Val Thr Cys Gln Trp Gln

300

295

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- Ile His Gln Ala Val Arg Leu Pro Thr Pro Asn Leu His Trp Arg Glu 385 390 395 400
- Ile Ser Ser Gly His Leu Glu Leu Glu Trp Gln His Pro Ser Ser Trp
 405 410 415
- Ala Ala Gln Glu Thr Cys Tyr Gln Leu Arg Tyr Thr Gly Glu Gly His
 420 425 430
- Gln Asp Trp Lys Val Leu Glu Pro Pro Leu Gly Ala Arg Gly Gly Thr 435 440 445
- Leu Glu Leu Arg Pro Arg Ser Arg Tyr Arg Leu Gln Leu Arg Ala Arg 450 455 460
- Leu Asn Gly Pro Thr Tyr Gln Gly Pro Trp Ser Ser Trp Ser Asp Pro 465 470 475 480
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Ala Leu Leu Val Leu Gly Leu Ser Ala Val Leu Gly Leu Leu Leu 500 505 510

Leu Arg Trp Gln Phe Pro Ala His Tyr Arg Arg Leu Arg His Ala Leu 515 520 525

Trp Pro Ser Leu Pro Asp Leu His Arg Val Leu Gly Gln Tyr Leu Arg 530 535 540

Asp Thr Ala Ala Leu Ser Pro Pro Lys Ala Thr Val Ser Asp Thr Cys 545 550 555 560

Glu Glu Val Glu Pro Ser Leu Leu Glu Ile Leu Pro Lys Ser Ser Glu 565 570 575

Arg Thr Pro Leu Pro Leu Cys Ser Ser Gln Ser Gln Met Asp Tyr Arg 580 585 590

Arg Leu Gln Pro Ser Cys Leu Gly Thr Met Pro Leu Ser Val Cys Pro 595 600 605

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val Hi	s Ser Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys 20 25 30	
	20 25 30	
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gag tgg att gga cgg att tat cct gga gat gga gaa act atc tac aat Glu Trp Ile Gly Arg Ile Tyr Pro Gly Asp Gly Glu Thr Ile Tyr Asn 65 70 75 80	240
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48

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Gly	Ala	Ile	Gly	Asp	Ile	Val	Met	Thr	Gln	Ala	Ala	Pro	Ser	Ile	Pro .	•
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øtc	act.	cct	gga	gag	tca	gta	tcc a	atc t	.cc t	gta	gg to	ct ag	gt aa	ig ag	gt.	144
_						Val										
Vai	1111	35	OI,		501	vui	40	110	501	0,0	6	45		_,_		
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						Asn										
Leu		1113	DCI	71311	Oly	55·		- , -	Dou	1,1	60				8	•
	50					00					00					
						4		. 4 4	+_		+~ +			++ ~.		240
						ctc										240
Pro	Gly	Gln	Ser.	Pro		Leu	Leu	lle	ıyr		мет	Ser	Asn	Leu		
65					70					75		-			80	
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Thr	Leu	Arg	Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	
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tøt.	at.g	caa	cat	ata	gaa	tat	cct 1	ttt a	acg t	tc g	ga t	cg g	gg a	сса	ag	384
_	_					Tyr										
0,5	MO, O	115				-,-	120				•	125	. •		-	
		110		•			120									
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Leu Leu His Ser Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg 50 55 60

Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala 65 70 75 80

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe 85 90 95

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Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser 20 25 30

Trp Met Asn Trp Val Lys Gln Arg Pro Gly Lys Gly Leu Glu Trp Ile 35 40 45

Gly Arg Ile Tyr Pro Gly Asp Gly Glu Thr Asn Asn Asn Gly Lys Phe 50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr Thr Ala Tyr
65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys 85 90 95

Ala Arg Gly Tyr Gly Asp Tyr Ser Phe Ala Tyr Trp Gly Gln Gly Thr 100 105 110

Leu Val Thr Val Ser Ala 115

<210> 21

<211> 118

<212> PRT

<213> Mus musculus

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Trp		Asn 35	Trp	Val	Lys	Gln	Arġ 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Ile
G1y	Arg 50	Ile	Tyr	Pro	Gly	Asp 55	Gly	Glu	Thr	Ile	Tyr 60	Asn	Gly	Lys	Phe
Arg 65	Val	Lys	Ala	Thr	Leu 70	Thr	Ala	Asp	Lys	Ser 75	Ser	Ser	Thr	Ala	Tyr 80
Met	Asp	Ile	Ser	Ser 85	Leu	Thr	Ser	Glu	Asp 90	Ser	Ala	Val	Tyr	Phe 95	Cys
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Ser	Val	Lys	Leu 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Tyr	Thr	r Phe	e Thr 30	- Asp	Туг

Trp Val Asn Trp Val Lys Gln Arg Pro Gly Arg Gly Leu Glu Trp Ile

35 40 45

Gly Arg Ile His Pro Tyr Asp Ser Glu Thr His Tyr Asn Gln Lys Phe 50 55 60

Lys Asn Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

Ile Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
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Val Ser Ala 115

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Tyr Ala Trp Ser Trp Ile Arg Gln Leu Pro Gly Asn Lys Leu Glu Trp 35 40 45

Met Gly Tyr Ile Thr Tyr Ser Gly Tyr Ser Ile Tyr Asn Pro Ser Leu 50 55 60

Lys Ser Arg Ile Ser Ile Ser Arg Asp Thr Ser Lys Asn Gln Leu Phe

65 70 75 80

Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
85 90 95

Val Gly Gly Tyr Asp Asn Met Asp Tyr Trp Gly Gln Gly Thr Ser Val
100 105 110

Thr Val Ser Ser 115

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Asp Ile Val Met Thr Gln Ala Ala Pro Ser Val Pro Val Thr Pro Gly
1 5 10 15

Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser 20 25 30

Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro 50 55 60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Ala Ala Phe Thr Leu Arg Ile
65 70 75 80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His 85 90 95

Leu Glu Tyr Pro Tyr Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys

100 105 110

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<213> Mus musculus

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Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser 20 25 30

Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro 50 55 60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Ala Ala Phe Thr Leu Arg Ile 65 70 75 80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His 85 90 95

Leu Glu Tyr Pro Tyr Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105 110

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Asn	Gly	Asn 35	Thr	Tyr	Leu	Tyr	Trp 40	Phe	Leu	Gln	Arg	Pro 45	Gly	Gln	Ser	
Pro	Gln 50	Leu	Leu	Ile	Tyr	Arg 55	Met	Ser	Asn	Leu	Ala 60	Ser	Gly	Val	Pro	
Asp 65	Arg	Phe	Ser	Gly	Ser 70	Gly.	Ser	Gly	Thr	Ala 75	Phe	Thr	Leu	Arg	Ile 80	
Ser	Arg	Val	Glu	Ala 85	Glu	Asp	Val	Gly	Val 90	Tyr	Tyr	Cys	Met	Gln 95	His	
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Glu	Ser	Val	Ser 20	Ile	Ser	Cys	Arg	Ser 25	Ser	Lys	Ser	Leu	Leu 30	Tyr	Ser	
Asn	Gly	Asn 35	Thr	Tyr	Leu	Tyr	Trp 40	Phe	Leu	Gln	Arg	Pro 45	Gly	G1n	Ser	
Pro	Gln	Leu	Leu	Ile	Tyr	Arg	Met	Ser	Asn	Leu	Ala	Ser	Gly	Val	Pro	

50 55 60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe Thr Leu Thr Ile 65 70 75 80

Ser Ser Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
85 90 95

Leu Glu Tyr Pro Tyr Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 28

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<212> PRT

<213> Mus musculus

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Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 10 15

Glu Lys Val Thr Leu Thr Cys Ser Ala Ser Ser Ser Val Ser Ser Ser Ser 20 25 30

His Leu Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys Leu Trp 35 40 45

Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser 50 55 60

Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Asn Met Glu
65 70 75 80

Thr Glu Asp Ala Ala Ser Tyr Phe Cys His Gln Trp Ser Ser Tyr Pro 85 90 95

Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys